

- To develop curriculum models that integrate the Core Curriculum Content Standards into all academic and occupational programs, including the Arts, as well as self contained enrichment courses using multi-media technology, TV and Video as essential elements.

During the plan period, various curriculums were revised and aligned to the core curriculum content standards. Common curriculum areas will be identified and technology will be explored to enhance teaching and learning.

- To expand the program to provide computers and appropriate training to our students and their families for at home use.

Our district has provided computers to students in need so that they and their families can have access to the Internet and various software applications such as Microsoft office. It is the intention of the district to expand this program as computers are made available.

- To explore and develop the use of technology labs to support literacy, education and the expansion of World Language and ESL programs.

- Recent data analysis of our ELL student population has revealed deficiencies in key content areas. To address these needs, software was used to boost instruction. However, because experienced problems in its implementation, its use was limited. For the next plan period, we intend to expand the use of the read 180 program, which is presently used with the special needs population to meet the needs of LEP students.

- To maintain and upgrade computers and technology on an ongoing basis, both in occupational and academic areas.

Throughout the school year, regular maintenance is done to ensure the efficient use of all computers. Periodically, obsolete computers were replaced with new ones. This was done in both the occupational and academic areas. The district continues to engage in such replenishment on an ongoing basis.

- To continue the Summer Technology Institute to develop curriculum applications in all aspects of curriculum.

Our district had previously conducted summer technology institute. However, because of budgetary constraints, there was a modification of the program. Staff was provided with ongoing support on basic application software such as select program in Microsoft office suite.

- **To continue investigation, development and implementation of applications and processes to improve business office and operations efficiency.**

Our district is always pursuing ways to improve the efficiency of our system. Many applications such as system 3000, SASI and Microsoft Office were constantly reviewed and improvements implemented. In addition, our district has subscribed to an Application Service Provider, AESOP, which automates the process of filing schedule openings, including the monitoring of absences and substitutes among other personnel issues.

- **Seek ways to integrate curriculum across career majors, through technology and the National Educational Technology Goals.**

It is the district's goal to encourage and promote integration across the core content areas. This was made easier with the installation of LCD projectors in many of our academic and shop classrooms. Shop and academic instructors met periodically to discuss and implement integration with the use of technology.

- **Implement a computerized grants management system within the District.**

The district's goal to fully implement a computerized grants management system was accomplished with the installation of System 3000, software that is presently used to monitor the NCLB, IDEA and Perkins grants.

OBJECTIVES FOR 2007-2008

- To develop and implement professional development opportunities that will increase staff competencies in the productive use of technology.
- To upgrade the current library automation system for research as well as circulation to a web based database.
- Continue to install large group projection capability in individual classrooms for computer and video.
- To develop and implement opportunities for staff to develop strategies and materials for integration of technology across the curriculum.
- Continue to develop and implement opportunities for staff to develop strategies and materials for integration of technology to track and utilize student data.
- To develop curriculum models that integrate the Core Curriculum Content Standards into all academic and occupational programs, including the Arts, as well as self contained enrichment courses using multi-media technology, TV and Video as essential elements.
- To expand the program to provide computers and appropriate training to our students and their families for at home use.
- To explore and develop the use of technology labs to support literacy, education and the expansion of World Language and ESL programs.
- To maintain and upgrade computers and technology on an ongoing basis, both in occupational and academic areas.
- To continue the Summer Technology Institute to develop curriculum applications in all aspects of curriculum.
- To continue investigation, development and implementation of applications and processes to improve business office and operations efficiency.
- Seek ways to integrate curriculum across career majors, through technology and the National Educational Technology Goals.
- Implement a computerized grants management system within the District.

OBJECTIVES FOR 2008-2009

- To develop and implement professional development opportunities that will increase staff competencies in the productive use of technology.
- To upgrade the current library automation system for research as well as circulation to a web based database.
- Continue to install large group projection capability in individual classrooms for computer and video.
- To develop and implement opportunities for staff to develop strategies and materials for integration of technology across the curriculum.
- Continue to develop and implement opportunities for staff to develop strategies and materials for integration of technology to track and utilize student data.
- To develop curriculum models that integrate the Core Curriculum Content Standards into all academic and occupational programs, including the Arts, as well as self contained enrichment courses using multi-media technology, TV and Video as essential elements.
- To expand the program to provide computers and appropriate training to our students and their families for at home use.
- To explore and develop the use of technology labs to support literacy, education and the expansion of World Language and ESL programs.
- To maintain and upgrade computers and technology on an ongoing basis, both in occupational and academic areas.
- To continue the Summer Technology Institute to develop curriculum applications in all aspects of curriculum.
- To continue investigation, development and implementation of applications and processes to improve business office and operations efficiency.
- Seek ways to integrate curriculum across career majors, through technology and the National Educational Technology Goals.
- Implement a computerized grants management system within the District.

OBJECTIVES FOR 2009-2010

- To develop and implement professional development opportunities that will increase staff competencies in the productive use of technology.
- To upgrade the current library automation system for research as well as circulation to a web based database.
- Continue to install large group projection capability in individual classrooms for computer and video.
- To develop and implement opportunities for staff to develop strategies and materials for integration of technology across the curriculum.
- Continue to develop and implement opportunities for staff to develop strategies and materials for integration of technology to track and utilize student data.
- To develop curriculum models that integrate the Core Curriculum Content Standards into all academic and occupational programs, including the Arts, as well as self contained enrichment courses using multi-media technology, TV and Video as essential elements.
- To expand the program to provide computers and appropriate training to our students and their families for at home use.
- To explore and develop the use of technology labs to support literacy, education and the expansion of World Language and ESL programs.
- To maintain and upgrade computers and technology on an ongoing basis, both in occupational and academic areas.
- To continue the Summer Technology Institute to develop curriculum applications in all aspects of curriculum.
- To continue investigation, development and implementation of applications and processes to improve business office and operations efficiency.
- Seek ways to integrate curriculum across career majors, through technology and the National Educational Technology Goals.
- Implement a computerized grants management system within the District.

IV. THREE-YEAR IMPLEMENTATION STRATEGIES / ACTIVITY TABLES (July 2007 – June 2010)

A. Goal: Students will acquire information technology literacy skills

District Goal and Objective Number	Activity	Timeline	Person(s) Responsible	Person Facilitating Activity (if applicable)	Evaluation
A-1	To develop and implement the infusion of technology across the academic and vocational curriculum.	7/1/07 through 6/30/2010	District Technology Coordinator; Supervisors	Assistant Superintendents	Teacher Handbook: Technology Across Academic and Vocational Curriculum
A-2	To investigate and implement new "high tech" course of study.	7/1/07 through 6/30/2010	District Technology Coordinator; Supervisor of Vocational Education; Technology Teachers	Assistant Superintendents	Core Tech Curriculum revision
A-3	To expand on the "Core Technology" course for all students.	7/1/07 through 6/30/2010	District Technology Coordinator; Supervisor of Vocational Education; Technology Teachers	Assistant Superintendents	Core Tech Curriculum revision
A-4	Explore the possibility of competency tests for students in technology and information literacy skills.	7/1/07 through 6/30/2010	District Technology Coordinator; Supervisor of Vocational Education; Technology Teachers	Assistant Superintendents	Core Technology curriculum Pre- and Post-Test
A-5	Develop and implement an information literacy skills curriculum.	7/1/07 through 6/30/2010	District Technology Coordinator; Supervisors; Media Specialists	Assistant Superintendents	Information Literacy Skills Across the Curriculum Guide

B. Goal: All students regardless of gender, race, national origin, special need and religious affiliation have equitable access to educational technology.

District Goal and Objective Number	Activity	Timeline	Person(s) Responsible	Person Facilitating Activity (if applicable)	Evaluation
B-1	Review and update Comprehensive Equity Plan as it pertains to access to educational technology	7/1/07 through 6/30/2010	District Comprehensive Equity Officer; Comprehensive Equity Plan Committee	Assistant Superintendents	Comprehensive Equity Plan
B-2	To disseminate Comprehensive Equity Plan as it pertains to access to educational technology to all staff	7/1/07 through 6/30/2010	District Comprehensive Equity Officer	Assistant Superintendents	Meeting attendance records and agendas
B-3	To disseminate Comprehensive Equity Plan as it pertains to access to educational technology to all students and parents	7/1/07 through 6/30/2010	District Comprehensive Equity Officer	Assistant Superintendents	Meeting attendance records and agendas
B-4	Implement monitoring system for Comprehensive Equity Plan as it pertains to access to educational technology	7/1/07 through 6/30/2010	District Comprehensive Equity Officer; Comprehensive Equity Plan Committee	Assistant Superintendents	A Guide to Monitoring Equitable Technology Access

C. Goal: How resources, services and activities coordinated and shared with projects are funded from federal, state and local sources.

District Goal and Objective Number	Activity	Timeline	Person(s) Responsible	Person Facilitating Activity (if applicable)	Evaluation
C-1	Development and implementation of a monitoring system to track the coordination of shared projects funded from federal, state and local sources	7/1/07 through 6/30/2010	District Technology Coordinator; Federal Program Administrators; Supervisors	Assistant Superintendents	Monitoring Plan
C-2	Twice yearly meeting to plan and coordinate shared projects funded from federal, state and local sources	7/1/07 through 6/30/2010	District Technology Coordinator; Federal Program Administrators; Supervisors	Assistant Superintendents	Rosters and agendas
C-3	Implement a computerized grants management system in the District for all federal, state and local funding sources	7/1/07 through 6/30/2010	District Technology Coordinator; Federal Program Administrators; Supervisors	Assistant Superintendents	Computerized Grants Management System

D. Goal: Innovative strategies that are supported and developed for use in the instructional classroom.

District Goal and Objective Number	Activity	Timeline	Person(s) Responsible	Person Facilitating Activity (if applicable)	Evaluation
D-1	To install and implement a library automation system for research as well as circulation.	7/1/07 through 6/30/2010	District Technology Coordinator; Media Specialists	Assistant Superintendents	Automated System Plan
D-2	Install large group projection capability in individual classrooms for computer and video.	7/1/07 through 6/30/2010	District Technology Coordinator; Supervisors; Technology Teachers	Assistant Superintendents	Inventory of large group projection equipment
D-3	To develop curriculum models that integrate the Core Curriculum Content Standards into all academic and occupational programs, including the Arts, as well as self contained enrichment courses using multi-media technology and TV as essential elements.	7/1/07 through 6/30/2010	District Technology Coordinator; Supervisors; Technology Teachers; Content Area Teachers	Assistant Superintendents	Handbook of Technology Integration: Curriculum Models
D-4	To expand the program to provide computers and appropriate training to our students and their families for at home use.	7/1/07 through 6/30/2010	District Technology Coordinator; NCLB Lab Project Supervisor; NCLB Lab Project Teachers	Assistant Superintendents	NCLB calendar, rosters and announcements

D. (continued)

District Goal and Objective Number	Activity	Timeline	Person(s) Responsible	Person Facilitating Activity (if applicable)	Evaluation
D-5	To explore and develop the use of technology labs to support literacy, education and the expansion of World Language and ESL programs.	7/1/07 through 6/30/2010	District Technology Coordinator; World Language & ESL Supervisors; World Language & ESL Teachers	Assistant Superintendents	Revised World Language and ESL Curriculum Guides
D-6	To maintain and upgrade computers and technology on an ongoing basis, both in occupational and academic areas.	7/1/07 through 6/30/2010	District Technology Coordinator; Supervisors; Teachers	Assistant Superintendents	Technology component to be included in all Curriculum Guides
D-7	Seek ways to integrate curriculum across career majors, through technology and the National Educational Technology Goals	7/1/07 through 6/30/2010	District Technology Coordinator; Vocational Supervisors; Vocational Teachers	Assistant Superintendents	National Educational Technology Goals component to be included in all Vocational Curriculum Guides
D-8	To facilitate the Special needs and ELL student population using assistive technology such as Kurzweil and read 180	7/1/07 through 6/30/2010	Special Needs and World Language Supervisors, Principals, network administrator	Instructors, Supervisors, Principals	Students will demonstrate gains in reading and writing as defined by teacher made assessments, standardized tests and NCLB mandates

E. Goal: How effective use of technology will promote parental involvement and increase communication with parents.

District Goal and Objective Number	Activity	Timeline	Person(s) Responsible	Person Facilitating Activity (if applicable)	Evaluation
E-1	Develop and implement plan to use technology to promote parent involvement and parent-school communication	7/1/07 through 6/30/2010	District Technology Coordinator; NCLB Lab Project Supervisor; NCLB Lab Project Parent Liaison	Assistant Superintendents	Parent Involvement Augmentation Plan
E-2	Develop Parent Academy Technology component	7/1/07 through 6/30/2010	District Technology Coordinator; NCLB Lab Project Supervisor; NCLB Lab Project Technology Teachers	Assistant Superintendents	Parent Academy Technology course offerings
E-3	Monitoring of Parent Academy Technology offering	7/1/07 through 6/30/2010	NCLB Lab Project Supervisor; NCLB Lab Project Technology Teachers	Assistant Superintendents	Parent Academy Technology course offerings and rosters

F. Goal: Programs will be developed in collaboration with our Adult Evening Program to ensure that Adult Literacy services will be provided.

District Goal and Objective Number	Activity	Timeline	Person(s) Responsible	Person Facilitating Activity (if applicable)	Evaluation
F-1	Planning sessions for implementing Introduction of Computer Literacy Technology for Night School	7/1/07 through 6/30/2010	Night School Principal; Night School Teachers; NCLB Lab Project Supervisor; NCLB Lab Project Teachers	Assistant Superintendents	Rosters and agendas
F-2	Training of staff for implementing Introduction of Computer Literacy Technology for Night School	7/1/07 through 6/30/2010	NCLB Lab Project Supervisor; NCLB Lab Project Teachers	Assistant Superintendents	Rosters and agendas
F-3	Introduction of Computer Literacy Technology	7/1/07 through 6/30/2010	Night School Principal; Night School Teachers; NCLB Lab Project Supervisor; NCLB Lab Project Teachers	Assistant Superintendents	Night School offerings and rosters

VI. FUNDING PLAN (July 2007 – June 2010)

A. The supporting resources that will be acquired to ensure successful and effective uses of technology in the District include:

- Curriculum
 - Cognitive Tutor: Algebra I & Geometry
 - Win Instruction Solution
 - Microsoft Office 2003
 - Microtype 4
- Guidance
 - COIN Career Guidance (web-based)
 - SASI (student database)
- Database
 - Discovery Collection (web-based)
 - Webfeet Core Collection (web-based)
 - EBSCO (web-based)
 - Facts on File Online (web-based)
 - SIRS Discoverer (web-based)
 - FOLLET (Library Database)
 - INFOTRAC
- Remedial
 - Workkeys
 - Skillsbank
 - Read 180
 - Kurzweil
 - Understanding Math
 - Ellis Software
 - Opac
- Maintenance and Upgrading of Current Offerings
 - The Learning Company/Cornerstone
 - AutoCAD
 - Mitchell on Demand
 - LJ Electronics
 - Hunter Alignment
 - Comp-Ed Auto Body & Fender Repair
 - Soft Plan Architectural Design
 - Snap on Diagnostic Scanner Software
 - Milady's Interactive Software
 - Identicaid

The projected cost of the technologies to be acquired and service agreements is approximately \$517,000. This will include the software series described above, as well as continued Internet access through our provider. We are also planning to upgrade assessment and record-keeping strategies of the Terranova Survey and Terranova Complete Battery tests. The cost of this endeavor has not been determined at this time.

The various federal, state and local funding sources include: NCLB Title I, NCLB Title IID, NCLB Title III, NCLB Title V, Perkins, IDEIA-B, E-Rate and other local sources.

D. 2007-2008 Proposed Budget

	Local	Perkins	NCLB	IDEIA-B	E-Rate	Budget Totals
Repair and Maintenance	17,000					17,000
Purchased Service	176,000		7,500			183,500
Supplies	80,000	39,100		20,000		139,100
Hardware	220,000	238,000	40,000		204,000	702,000
Staff Development	21,000		2,500	1,000		24,500
Telecommunications					268,000	268,000
Travel	3,000					3,000
Student Salaries						
Totals	517,000	277,100	50,000	21,000	472,000	1,337,100

2008-2009 Projected Budget

	Local	Perkins	NCLB	IDEIA-B	E-Rate	Budget Totals
Repair and Maintenance	17,000					17,000
Purchased Service	82,000		7,500			89,500
Supplies	80,000	39,100		20,000		139,100
Hardware	220,000	238,000	40,000		204,000	702,000
Staff Development	21,000		2,500	1,000		24,500
Telecommunications					268,000	268,000
Travel	3,000					3,000
Student Salaries						
Totals	419,964	277,100	50,000	21,000	472,000	1,243,100

2009-2010 Projected Budget

	Local	Perkins	NCLB	IDEIA-B	E-Rate	Budget Totals
Repair and Maintenance	17,000					17,000
Purchased Service	82,000		7,500			89,500
Supplies	80,000	39,100		20,000		139,100
Hardware	220,000	238,000	40,000		204,000	702,000
Staff Development	21,000		2,500	1,000		24,500
Telecommunications					268,000	268,000
Travel	3,000					3,000
Student Salaries						
Totals	419,964	277,100	50,000	21,000	472,000	1,243,100

VII. PROFESSIONAL DEVELOPMENT

The person responsible for coordinating our Professional Development Activities is Howard Weshnak, Chairperson of our district's Professional Development Committee.

Through departmental level meetings, teachers and supervisors in the Core Curriculum Content areas will complete a needs assessment to determine areas of computer technology infusion.

At the Core Curriculum Content departmental level meeting, relevant research on integration of technology into curriculum and instruction will be presented, discussed and integrated into curriculum guides.

Ongoing sustained professional development for administrators will be provided in the areas of the effective use of technology in classrooms and media centers. State and national speakers will be utilized for this purpose. Then, administrators and supervisors will work with staff to assist in the infusion of technology in their instruction. Written plans, daily lessons, and in-class instructional modeling reflect the infusion of technology across the curriculum. Teachers are encouraged to participate in the professional development program pursuant to objectives that have been disseminated as district initiatives and are included in individual Professional Improvement Plans. In addition, trained teachers and supervisors will turnkey other staff within their own buildings and departments.

Pre- and post-surveys will be employed to determine proficiency of teachers and media specialists in the use of technology within the District.

Lack of ongoing sustained professional development technology offerings has been identified as a need within the District. Funding and time constraints set barriers for successful professional development, which must be overcome.

Though many teachers use computer applications to keep track of grades, there was little evidence of teachers collecting and analyzing data for instructional planning or instructional purposes. Few teachers use technology in a variety of ways (projects, web-based testing, and computer-aided instruction) to assess student learning. Teachers need to develop a portfolio of progressive lesson plans that indicate more effective use of technology in alignment of best practices and research findings.

Staff training is mostly provided using in-district resources.

The District, through its Professional Development Committee and its NCLB Lab Project offerings, continues to provide an aggressive Professional Development program which includes after-school courses, departmental and Inservice-Day workshops and programs, and our Summer Institute in Technology. Staff is

encouraged and supported in their participation in technology related conferences and graduate course work, as appropriate.

VIII. EVALUATION PLAN

Much more than simply installing hardware and establishing network connectivity, the district's goals speak to actual use of online information, communications and instructional technologies on a scale wider than most staff in our system have experienced to date, and wider, probably, than some have imagined. Our administrators understand the advantages of online database management systems and are looking forward to realizing the improvements they offer.

As a system of vocational-technical high schools, the district has a number of technology-rich labs in our occupational programs. Most of our teachers have a basic level of familiarity with computer applications. Some others are quite sophisticated. All of the staff have had training in and have access to e-mail and the Internet, although a few are still not utilizing these tools and resources on a regular basis. The district is continuing to move all staff to incorporate e-mail into their everyday routines and to explore the Internet and other technology-based resources as instructional tools.

Using current data as a new starting point, we are planning a comprehensive program leading to the widespread delivery of information-rich, technology enhanced instruction, enhanced administrative focus and effectiveness, and to the forging of important new linkages with parents, community members, potential corporate sponsors and our partner schools.

Clearly, the natural seamless use of technology that we envision is not solely the result of installing hardware and wires. Now that this infrastructure is in place, we are increasingly focusing on the training of users, particularly of teachers, who must be active and creative users, and the development of new instructional approaches.

APPENDIX A

Exhibit B

Kane Communications, LLC

**Essex County Vocational Schools
TCC School
RFI - 001**

Project: TCC School

Date: 03/15/07

Customer: Essex County

Contact: Terrence Hansford - Essex County IT

Project Manager: Tim Orfe

- In the computer labs at TCC that do not have existing power poles the existing cables are located in surface mounted boxes on the floor under the tables. Are we to install the new cabling in the same manner?

Customer Response: DUE TO AN ADDITIONAL COST TO THE
DISTRICT ALL COMPUTER LABS THAT HAVE EXISTING CABLES
LOCATED IN SURFACE MOUNTED BOXES ON THE FLOOR ARE TO BE
SETUP IN THE SAME MANNER WITH THE INSTALLATION OF THE
NEW CABLING.

Customer Signature: Terrence Hansford

Date: 3/19/07

Kane Communications, LLC

**Essex County Vocational Schools
TCC School
RFI - 002**

Project: TCC School

Date: 03/15/07

Customer: Essex County

Contact: Terrence Hansford – Essex County IT

Project Manager: Tim Orfe

- What is the final decision for the location of the MDF on the 2nd floor & the IDF on floors 1, 3, & 4?

Customer Response: MDF ON 2ND FLOOR WILL BE MOVED FROM RM217 TO YONG'S OFFICE IN ROOM 203. THE 1ST FLOOR IDF WILL BE LOCATED IN CONFERENCE AREA BEHIND SECURITY OFFICE. THE 3RD FLOOR IDF WILL REMAIN IN ROOM 312. THE 4TH FLOOR IDF WILL REMAIN IN THE BOILER ROOM.

Customer Signature: Terrence Hansford

Date: 4/4/07

Kane Communications, LLC
572 Whitehead Road
Trenton, NJ 08619

www.kanecomm.com
Phone: 609-584-8900
Fax: 609-584-8855

Kane Communications, LLC

**Essex County Vocational Schools
Bloomfield School
RFI - 003**

Project: Bloomfield School

Date: 05/10/07

Customer: Essex County

Contact: Terrence Hansford - Essex County IT

Project Manager: Tim Orfe

- Clarify the MDF and IDF locations and what size cabinet for each.

Customer Response: 1ST FL TEACHER LUNCH ROOM ^{2'0} RACK WALL MOUNTABLE
1ST FL ROOM 18 (CONLON) 7'0 RACK, 2ND FL CONFERENCE ROOM 7' CABINET,
2ND FL RM 216 BACK CLOSET 4' WALL MOUNTABLE RACK, 3RD FL 7' RACK
IN CURRENT MDE (BACK OF RM 38), 3RD FL 7' RACK IN ROOM 32, 4TH FL
7' RACK IN CURRENT IDF CLOSET

Customer Signature:

Terrence Hansford

Date:

5/18/07

Exhibit C

From: terence hansford [thansford@essextech.org]
Sent: Wednesday, April 04, 2007 2:24 PM
To: Tim
Cc: John
Subject: RE: IDF Locations for TCC

Tim,

I am confirming that the first floor IDF cabinet location will be back to the original location - in the conference area behind security. I am also confirming that the 2nd floor MDF will be moved from room 217 to Yong's office in room 203. I will inform Tom tonight and I will fax John the RFI - 002 form with my signature as well stating where all the IDF and MDF closets will be located.

Thanks!

Terence

From: Tim [mailto:torfe@kanecomm.com]
Sent: Wednesday, April 04, 2007 6:48 AM
To: terence hansford
Cc: John
Subject: IDF Locations for TCC

Terrence,

I just want to confirm that we have moved the IDF Cabinet location on the first floor back to the original location - in conference area behind security. Also, I need the definite location of the MDF by Thursday, April 5th. If you want, you can let the onsite foreman, Tom Cottrell know. We plan on pulling the 2nd floor cables during Easter break because it's the busiest Night School floor. Thank you in advance.

Tim Orfe
Kane Communications
572 Whitehead Road, Building 2
Trenton, NJ 08619
(609) 586-8800
(609) 586-8855 fax
(856) 912-7310 cell

7/7/2010